

Executive Engineer 9/12
Byatarayanapura Division
BBMP, Bangalore-92

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Ist and Final Bice

BR/896/30.3.2017

M. A. R. 57 (Rule 116)

Measurement Book

Work code: 005-17-000006

Est Cost 12.23.50

No. B

Serial No.

Name of Work

Improvements

Нетанна Swamy

From

Roads and Grains Act 352601

Temple Road / Bank Srinivasa

Byatunakamaliya & in Ward

BB BBF 9-1-18

Date of commencement of work

RR 876-9-1-10

Date 1	Full description, etc., of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	<u>Work order no.</u> - BBMP/EE/BTP/WO/154/2016-17 <u>Name & Contractor</u> - KRIDL East Park Road, Malleshwaram. Bangalore - 03.						
	① Earthwork Excavation and forming in embankment by manual means in ordinary soil with initial lead up to 15 mtr and less & 1.00 mtr (when earth is taken from bank cutting & from borrow pits) including breaking & clearing of						

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MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Spreading of measured lines and level Cont & all labour etc.. Contense as per Specification. As per pre-measurement recorded vide Page no.. 352654 to 352655 in this MB. Page. 105:84 $261.53 m^3$ ~~Handling~~ 27680:33						
②	Earthwork Excavation by manual means in hard soil involving an average horizontal throw up to 2m or and an average cut up to 0.50m or excavated surface.						

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Serial No. From....
Name of Work
Name of Contractor of nature of Agency
Date of commencement of work

Date 1	Full description, etc, of work 2	Number 3
	Levelled nearly after Specification etc.. Cont As per pre-me Page no. 3526 Page. 115:56	
③	Providing Granite SI dressed and fixed in	

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NT BOOK

Dimensions		Contents	Reference to last Measurement
Breadth	Depth		
5	6	7	8
8 and level Cut & all in Specification.			
ment recorded vide			
352655		in this MB.	
		261.53 m ³	
		27680:33	
		ghanduraf	
		ual means in hard Soil	
		ntal throw up to 2m or	
		tr excavated Surface.	

M. A. R. 57 (Rule 116) Measurement Book

No. B

352602

Serial No. From To
 Name of Work
 Name of Contractor of nature of Agency
 Date of commencement of work

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Levelled nearby after breaking of clods complete as per Specification etc. - complete as per Specification.						
	As per the measurement recorded vide						
	Page no. 352655 to 352657					in this MB.	
						101.88 m ³	11773:25
	Rate. 115:56					ghanduraf	
	③ Providing Granite Slabs & selected quality roughly dressed and fixed in cement mortar 1:6 including fixing						

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MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Curing etc.. concrete as per specification. Mahasub Phasha House Road. L. Side	1	30.00	1.35	-	40.80	
		1	30.00	1.35	-	40.80	
		1	30.00	1.35	-	40.80	
		1	30.00	1.35	-	40.80	
		1	30.00	1.35	-	40.80	
	R. Side	1	14.80	1.35	-	19.98	
		1	30.00	1.35	-	40.80	
		1	30.00	1.35	-	40.80	

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Serial No.
Name of Work From
Name of Contractor of nature of Agency
Date of commencement of work

Date 1	Full description, etc, of work 2	Number 3
		1
		1
		1
		1
	Cross Road.	2
		1
	Deduction.	1
		①

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

352603

Serial No.

Name of Work From To

Name of Contractor of nature of Agency

Date of commencement of work

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
		1	30.00	1.35	-	40.50	
		1	30.00	1.35	-	40.50	
		1	30.00	1.35	-	40.50	
		1	14.50	1.35	-	19.57	
	Cross Road.	2	16.70	1.35	-	45.09	
		1	14.00	1.35		18.90	
	Deduction.	1	5.00	1.35	-	6.75	
						508.04 m ²	

Contents 7	Reference to last Measurement 8
etc. - Compose	
40.50	
40.50	
40.50	
40.50	
40.50	
19.98	
40.50	
40.50	

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MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	②	1	5.40	1.35	-	7.29	
	Rate - 663 = 12					193.29 m ²	
						327110 = 46	
④	Providing and laying in position Plain Cement Concrete 8 Mix M 1:4:8 with OPC cement as 180 kg with nominal and down size graded granite metal coarse aggregate as 0.872 cum and fine aggregate as 0.57 cum machine mixed concrete laid in layers not exceeding 15 cm thick					Handwritten	

Serial No.
Name of Work
Name of Contractor of nature of Agency
Date of commencement of work

Date 1	Full description, etc, of work 2	Number 3
	Well compacted in 80 labour compacted as per As per Spec. m Page no. 352 Rate - 5070 = 60	
	⑤ Providing and casting Masonry in foundation	

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BOOK

Depth 6	Contents 7	Reference to last Measurement 8
	7.29	
	493.29 m ²	
	327110 = 46	
	Handwritten notes: Lain cement Concrete 8 180 kg with some coarse aggregate 0.57 cum machine feeding 15 cum brick	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

352604

Serial No.

Name of Work From To

Name of Contractor of nature of Agency

Date of commencement of work

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Well compacted in foundation including carry over materials labour compact as per Specification. As per pre-measurement recorded vide Page no. 352658 to 352660 Rate. 5070 = 60 ⑤ Providing and constructing Granitic trap basalt 800 size stone masonry in foundation with CM 1:6 Stone hammered dressed					Handwritten notes: in this MB. 134.57 m ³ 682350 = 64	

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	in Courses not less than 20 cm high band stones as 2.0 m or apart in each course including cart & materials labour curing concrete after green work.						
	As per the measurement recorded vide Page No. 352660 to 352660 in this MB.						
	Page. 4135:32					7.02 M 29029:41	
②	Providing and constructing granite / trap / basalt size stone masonry in Sagement wall cm 116 edges & stones						

Serial No.
 Name of Work
 Name of Contractor of nature of Agency
 Date of commencement of work

Date 1	Full description, etc, of work 2
	chiselled dressed in stones as 2.0 m or materials labour curements.
	①
	②
	Page. 4905:36

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h	Depth 6	Contents 7	Reference to last Measurement 8
		high bond stones including corr & se after specification.	
		not recorded under 2660	
		7.02 m ³ in this MB. 29029:91	
		change	
		1/4" trap basalt size	
		146 edges & stones	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

352605

Serial No.

Name of Work From To

Name of Contractor of nature of Agency

Date of commencement of work

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	curbstone dressed in courses not less than 15 cm high bond stones of 2.0 m or above in each course including corr & material labour curing concrete as per specification.						
	Culverts.						
	①	2	5.00	0.50	0.50	2.50	
	②	2	5.40	0.50	0.50	2.70	
						5.20 m ³	
						4.86 m ³	
	Base. 4905:36						23840:04

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MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
⑦	Providing and removing centering shuttering for flooring etc. and removal of form work for sides and soffits of beams haunched cast in situ shuttering and centering not exceeding 1.0m in depth cost & all materials labor concrete as per specifications As per Pre-measurement recorded vide Page no. 352661 to 352661 in this MB. Rate. 270/-					15.30 m ²	4131/-

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Serial No.
Name of Work From
Name of Contractor of nature of Agency
Date of commencement of work

Date	Full description, etc, of work 2	Number 3
⑧	Providing and laying of mix 1:3:6 Wm OPC down size graded granitic and give aggregate of 0.75 in laying not exceeding 1.0m including cost & all materials Curency	① 2 1

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BOOK

Depth 6	Contents 7	Reference to last Measurement 8
ring shuttering shuttering work for sides concrete formwork 1.0m in depth 2.0m of per square rounded side in this NB. 15.30 m ² 4131:10		

M. A. R. 57 (Rule 116)
Measurement Book

No. B

352606

Serial No.
Name of Work From To
Name of Contractor of nature of Agency
Date of commencement of work

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	⑧ Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement of 220 kg with 20mm and down size graded granite metal coarse aggregate of 0.84 cum and fine aggregate of 0.56 cum machine mixed concrete laid in layers not exceeding 15 cm, which was compacted in formwork including cost of all materials etc. - concrete. <u>Curers</u>	①					
		2	5.00	0.50	0.12	0.60	
		1	5.00	0.60	0.12	0.36	

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MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	②	2	5.40	0.50	0.12	0.64	
		1	5.40	0.60	0.12	0.38	
						1.98 m	
	Page 5491:8						10873:76
	⑨ Providing flush pointing to coursed stone masonry W/M CM 1:3 20mm deep after making joints to depth of 20mm nicely lining including cost of measuring labour curing complete as per specification.						

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ame of Work
ame of Contractor of nature of Agency
ate of commencement of work

Date	Full description, etc, of work 2	Number 3
	Cueverx. ①	2
	②	2
	Page. 99:36	
	⑩ Providing and laying in 8 mix M20 W/M OPC down size graded gran and lime as per spec at 0.1	

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Contents	Reference to last Measurement
7	8
0.64	
0.38	
1.98 m	10873:76
Stone masonry joints in deep reservoirs	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 352607

Serial No.
Name of Work From To
Name of Contractor of nature of Agency
Date of commencement of work

Date	Full description, etc., of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Culvert. ①	2	5.00	-	0.60	6.00	
	②	2	5.40	-	0.60	6.48	
						12.48 m	1240:01
	Base. 99:36						
	⑩ Providing and laying in position of mix M20 WRM OPC cement as 320 kg with 20mm and down size graded granite metal coarse aggregate as 0.878 and fine aggregate as 0.459 cum W.M. Superblended as 318 kg						

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MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Conforming to machine mixed exceeding 15 cm size Vibrated for all work in foundation partition and ground floor level for roof slabs staircase linings etc. as Coping bed slabs For specification. Culverts. Bridge.	① 8 ② 8 1852 1	1.50 1.50 8.00	0.60 0.60 5.10	0.23 0.23 (0.35 + 0.25) 2	1.65 1.65 12.24	

11.0. (10.2)

Serial No.
Name of Work
Name of Contractor of nature of Agency
Date of commencement of work

Date 1	Full description, etc, of work 2	Nu 3
	Missing slabs.	6
		6
		1
		3
		1

Page 6198: 12

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Depth 6	Contents 7	Reference to last Measurement 8
	Preceding 15 cm x 3 cm iron pin and small linings retaining etc. compare as	
1-65		
1-65		
2-24		

M. A. R. 57 (Rule 116)
Measurement Book

No. B

352608

Serial No.

Name of Work From To

Name of Contractor of nature of Agency

Date of commencement of work

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Missing glass.	6 ✓	1.50	0.60	0.23	1.24 ✓	
		6 ✓	1.50	0.60	0.23	1.24 ✓	
		4 ✓	1.50	0.60	0.23	0.82 ✓	
		5 ✓	1.50	0.60	0.23	1.03 ✓	
		3 ✓	1.50	0.60	0.23	0.62 ✓	
						20.49 m ³	
	Page 6198: 12						

126999 = 47

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MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
⑪	Providing TMT steel reinforcement for RCC work including straightening, cutting, bending, hooking, placing in position, lapping and or welding whenever required tying with binding wire and anchoring to the adjoining members whenever necessary. Complete as per design. Cuts, hooks and wastage shall not be measured and paid. Carr & measuring etc.. Complete. As per P.M. Measurement recorded vide Page no.. 352661 to 352663 in this MB. Page 64074:14					2.30 Ton	147370:52

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Serial No.
Name of Work From
Name of Contractor of nature of Agency
Date of commencement of work

Date 1	Full description, etc, of work 2	Number 3
⑫	Consolidation of embankment maximum WM all cross grading to required S Table 300-2 Complete Carr & Gravel (maximum) As per P.M. Page no.. 35 Page 311:04	

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NT BOOK

ensions

Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
ement for Rce work	bending hooking Placing	ding whenever measured	measuring to the adjoining
complete as per design	not be measured and paid	recorded vide	in this MB.
3	2.30 Ton	Handwritten	47370:52

M. A. R. 57 (Rule 116) Measurement Book

No. B

352609

Serial No.

Name of Work From To

Name of Contractor of nature of Agency

Date of commencement of work

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	(12) Construction of embankment with approved meserial gravel maximum WM all cross and length transverse to give spreading grading to measured slope and compacting to meet requirements Table 300-2 Complete as per specification which includes Cott & Gravel (maximum watering charges etc.. complete. As per pre-measurement recorded vide Page no. 352657 to 352658 in this MB. Page 311:04 217.94m ³ 67788:05 Handwritten						

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Date	Full description, etc., of work	Number
1	2	3
	cap. 30/13	

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2
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Depth	Contents	Reference to last Measurement
6	7	8
	These using 20 mm mixed concrete RMC and well finished and plastering & corner reinforcement & cast mixed cement plaster.	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 352610

Serial No.
Name of Work From To
Name of Contractor of nature of Agency
Date of commencement of work

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
		1	15.00	4.40	0.10	6.60	
		1	15.00	$(4.40 + 4.60)$		8.10	
				2	$\times 0.12$		
		1	15.00	$(4.60 + 4.35)$		8.05	
				2	$\times 0.12$		
		1	15.00	$(4.35 + 5.10)$		7.08	
				2	$\times 0.10$		
		1	15.00	$(5.10 + 4.95)$		7.53	
				2	$\times 0.10$		
		1	15.00	$(4.95 + 5.30)$		9.22	
				2	$\times 0.12$		

Calc.
n.b. (b)

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
		1	15.00	$(5.30 + 5.15)$	$\frac{2}{2} \times 0.10$	7.83	
		1	15.00	$(5.15 + 5.10)$	$\frac{2}{2} \times 0.10$	7.68	
		1	15.00	$(5.10 + 4.90)$	$\frac{2}{2} \times 0.10$	7.50	
		1	14.80	$(4.90 + 5.25)$	$\frac{2}{2} \times 0.10$	7.51	
		1	16.20	$(6.0 + 5.40)$	$\frac{2}{2} \times 0.10$	9.23	
						87.18 m	
							552027:24

Page 6332:04

ghandur

Serial No.
Name of Work
Name of Contractor of nature of Agency
Date of commencement of work

Date 1	Full description, etc, of work 2
	(14) Providing and board in expan Technical Spec
	Page 138:24

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BOOK

Depth 6	Contents 7	Reference to last Measurement 8
5.15	7-83	
6.10	7-68	
7.10	7-50	
8.10	7-51	
9.23		
87.18		
552027:24		

M. A. R. 57 (Rule 116)
Measurement Book

No. B

352611

Serial No.

Name of Work From To

Name of Contractor of nature of Agency

Date of commencement of work

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	(14) Providing and fixing 20mm thick Compressive fibre board in expansion joint Compose as per Drawing and Technical Specification Compose as per Specification.						
		15	4.00	-	-	60.00	
		15	4.40	-	-	66.00	
		12	5.00	-	-	60.00	
						186.00 Mr	

Page 138:24

25712:64

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MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
(15)	Vacuum Dr. Drilling with Vacuum Pump and Suction mat and Compaction with Stein glasser classed with gleasing disc including cost of generator & man gerred vibratory power floater blade and disc etc. with all lead and wt etc. Complete. <u>Mahabubphagha house Road.</u>	1	15.00	(3.90 + 4.40)	2	62.25	
		1	15.00	4.40	-	66.00	
		1	15.00	(4.40 + 4.60)	2	67.50	

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Serial No.
Name of Work
Name of Contractor of nature of Agency
Date of commencement of work

Date 1	Full description, etc, of work 2	Number 3
		1
		1
		1
		1
		1

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BOOK

Depth 6	Contents 7	Reference to last Measurement 8
	Pump and suction classified with HOM & measurement ade and ligc etc..	
62.25		
66.00		
67.00		

M. A. R. 57 (Rule 116)
Measurement Book

No. B 352612

Serial No. From To
Name of Work
Name of Contractor of nature of Agency
Date of commencement of work

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
		1	15.00	4.60 + 4.35	2	67.12	
		1	15.00	4.35 + 5.10	2	70.87	
		1	15.00	5.10 + 4.95	2	75.37	
		1	15.00	4.95 + 5.30	2	76.87	
		1	15.00	5.30 + 5.15	2	78.37	

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MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
		1	15.00	(5.15 + 5.10)	2	76.87	
		1	15.00	(5.10 + 4.90)	2	75.00	
		1	14.80	(4.90 + 5.25)	2	75.11	
		1	16.20	(6.0 + 5.40)	2	92.34	
	Rate 97:20					871.78	
(16)	Lead for Disposal & Debris shall be payable at Carage Rates by mechanical means including loading					84734:10	

Serial No.
Name of Work
Name of Contractor of nature of Agency
Date of commencement of work

Date 1	Full description, etc, of work 2	Number 3
	and unloading from Quantity vide Rate 73:36 CFC 12/28/15 16/3/2017	

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Depth 6	Contents 7	Reference to last Measurement 8
5.60	76.87	
7.90	75.00	
25)	75.11	
10)	92.34	
	871.78	
	84734=10	
	Paragge of including loading	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 352613

Serial No.
Name of Work From To
Name of Contractor of nature of Agency
Date of commencement of work

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	and re-loading From 0.00 to 2.00 km etc. Complete. Quantity vide item no. ① and ② (261.53 + 101.88) = 363.40 m ³ Rate 73:36 CFC 12.52% 16/3/2017 Add 8% PRISC Charge Rs. For 1% Third Party Charge Rs. Jhandrup					26659:02 Jhandrup 20/2/17 Total Rs. 2155556:03 2149318-00 171945-00 215556:00 21493-00 Net Total Rs. 2349556:00 2342,756-00	

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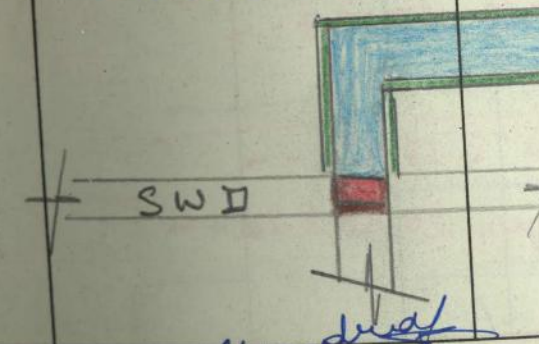
MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	<u>Certificate</u>. ① certified that the work done Satisfactory ② This bill amount has not been entered in any of previous bill. <i>Alhandra</i> 6/3/17.						

20.28.16
6/3/2017

M. A.
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Serial No. From
Name of Work
Name of Contractor of nature of Agency
Date of commencement of work

Date 1	Full description, etc, of work 2	Number 3
	INDEK — Slab Drain — Cucumber — Concrete Road 	

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No. B
352614

Serial No.		From To					
Name of Work		Name of Contractor of nature of Agency					
Date of commencement of work		Reference to last Measurement					
Date	Full description, etc., of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	INDEX Slab Drain Cuevers Covered Road SMD Mahabub House Quarry Road	3	4	5	6	7	8

BR/896/30-3.17.

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		

23,42,756-00
 3,13,930-00
 20,28,826-00
 Rs. Twenty Lakhs + twenty eight
 thousand eight hundred + twenty six paise.
 [Signature]

Serial No.
 Name of Work
 Name of Contractor of nature of A
 Date of commencement of work

Date 1	Full description, etc, of work 2